CLAIMS

What is claimed is:

1. A method for measuring a longitudinal Kerr effect and lubricant thickness on a thin film magnetic disk having a carbon layer, comprising the steps of:

transmitting a light signal toward the magnetic disk at a first angle, said first angle at an angle between zero degrees from vertical and ninety degrees from vertical, said light signal linearly polarlized and impinging upon the magnetic disk causing a reflected component of the laser light to be reflected off of the magnetic disk at substantially said first angle and causing a scattered component of said laser light;

receiving said reflected component;

receiving said scattered component;

determining the lubricant thickness based upon the reflected component and scattered component;

measuring a rotation in a plane of the reflected polarized light to determine a magnetic property of the magnetic disk at the point of reflection.